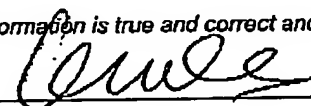


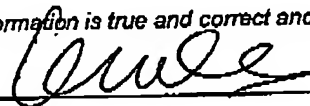
MATI-227US

PATENT ONLY

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (Exp. 6/30/2005)		RECORDATION FORM COVER SHEET <b>PATENTS ONLY</b>	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks, Please record the attached original documents or copy thereof			
<b>1. Name of conveying party(ies):</b> <u>1) Joao Miguel Romano</u> <u>2) Shaomin Samuel Mo</u> <u>3) Alexander M. Haimovich</u>  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<b>2. Name and address of receiving party(ies):</b> Name: Matsushita Electric Industrial Co., Ltd. Internal Address: 1006, Oaza Kadoma  Street Address: Kadoma-shi  City: Osaka State: Zip: 571-8501 Country: JAPAN  Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<b>3. Nature of Conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Correction of Assignment Recordation (previously recorded at Reel _____, Frame _____). <input type="checkbox"/> Other  Execution Date: <u>1) 6/23/04; 2) 5/28/04; 3) 6/21/04</u>			
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application Number(s) <u>10/789,507</u> B. Patent Number(s) _____ Additional number(s) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b> Name: <u>Kenneth N. Nigon</u> Internal Address: <u>RatnerPrestia</u>  <input checked="" type="checkbox"/> Street Address: <u>Suite 301</u> <u>One Westlakes</u> <u>Berwyn, P.O. Box 980</u> City: <u>Valley Forge</u> State: <u>PA</u> ZIP: <u>19482-0980</u>  <input type="checkbox"/> Street Address: <u>Nemours Building</u> <u>1007 Orange Street</u> <u>Suite 1100, P.O. Box 1596</u> City: <u>Wilmington</u> State: <u>DE</u> ZIP: <u>19899</u>		<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 3.41):</b> \$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  <b>8. Deposit account number:</b> <u>18-0350</u> (Attach duplicate copy of this page if paying by deposit account.)	
<b>DO NOT USE THIS SPACE</b>			
<b>9. Statement and signature.</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  Kenneth N. Nigon <u>31,549</u>  <u>6/29/04</u> Name of Person Signing Registration No. Signature Date  Total Number of Pages including cover sheet, attachments and documents: <u>3</u>			

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Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (Exp. 6/30/2005)		RECORDATION FORM COVER SHEET <b>PATENTS ONLY</b>		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof					
1. Name of conveying party(ies): <u>1) Joao Miguel Romano</u> <u>2) Shaomin Samuel Mo</u> <u>3) Alexander M. Haimovich</u>  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		2. Name and address of receiving party(ies): Name: <u>Matsushita Electric Industrial Co., Ltd.</u> Internal Address: <u>1006. Oaza Kadoma</u>  Street Address: <u>Kadoma-shi</u>  City: <u>Osaka</u> State: _____ Zip: <u>571-8501</u> Country: <u>JAPAN</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Correction of Assignment Recordation (previously recorded at Reel _____, Frame _____) <input type="checkbox"/> Other _____ Execution Date: <u>1) 6/23/04; 2) 5/28/04; 3) 6/21/04</u>					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application Number(s) <u>10/789,507</u> B. Patent Number(s) _____ Additional number(s) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Kenneth N. Nigon</u> Internal Address: <u>RatnerPrestia</u>  <input checked="" type="checkbox"/> Street Address: <u>Suite 301</u> <u>One Westlakes</u> <u>Berwyn, P.O. Box 980</u> City: <u>Valley Forge</u> State: <u>PA</u> ZIP: <u>19482-0980</u>  <input type="checkbox"/> Street Address: <u>Nemours Building</u> <u>1007 Orange Street</u> <u>Suite 1100, P.O. Box 1596</u> City: <u>Wilmington</u> State: <u>DE</u> ZIP: <u>19899</u>		6. Total number of applications and patents involved: <u>1</u>  7. Total fee (37 CFR 3.41): <u>\$ 40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number: <u>18-0350</u> (Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS SPACE					
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
Kenneth N. Nigon <u>31,549</u> Name of Person Signing Registration No.		 Signature		<u>6/29/04</u> Date	
Total Number of Pages including cover sheet, attachments and documents: <u>3</u>					

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<b>ASSIGNMENT - Patent Application</b>		Docket Number: <b>MAT1-227US</b>
Whereas, the Assignor, comprising the following named inventors:		
ASSIGNOR(s)/ INVENTOR(s)	1. J a Miguel Roman	2. Sha min Samuel Mo
	3. Alexander M. Haimovich	4.
	5.	6.
made an invention entitled: <b>METHOD AND APPARATUS FOR MODULATING A PULSE SIGNAL WITH A BIT STREAM</b>		
for which an application for Letters Patent of the United States: (Select one of the following): <input type="checkbox"/> is executed concurrently herewith <input checked="" type="checkbox"/> was filed in the U.S. Patent and Trademark Office on <u>February 27, 2004</u> , as U.S. Patent Application Serial No.: <u>10/789,507</u>		
ASSIGNEE (Full Name and Address)	Matsushita Electric Industrial Co., Ltd. 1006, Oaza Kadoma, Kadoma-shi Osaka 571-8501 JAPAN	
<p>is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor.</p> <p>Now, therefore, in consideration of the payment by Assignee to Assignor of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, intending to be legally bound, hereby sells, assigns and transfers to Assignee, its successors and assigns the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto.</p> <p>Assignor hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.</p> <p>Assignor agrees it shall be legally bound, upon request of the Assignee or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the Assignor has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the Assignee, and to execute all instruments proper to carry out the intent of this instrument.</p> <p>If the invention requires a biological deposit, Assignor also grants to Assignee such control over any deposit made by Assignor as may be necessary to the validity of the patent rights assigned herein.</p>		

**ASSIGNMENT - Patent Application**Docket Number: **MATI-227US**

Assignor authorizes Assignor's attorney to insert at the end hereof, the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney Docket or file designation for this application if not identified above.

If the Assignor includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

In witness whereof, this Assignment is executed on the day indicated below.

Typed or Printed Name	Signature	Date
1. Joao Miguel Romano	<i>X Joao Romano</i>	<i>June 23 '04</i>
	* Witness to Assignor #1	
2. Shaomin Samuel Mo	<i>Shaomin S. Mo</i>	<i>MAY 28. 2004</i>
	* Witness to Assignor #2	
3. Alexander M. Halmovich	<i>Alex Halmovich</i>	<i>6/21/04</i>
	* Witness to Assignor #3	
4.		
	* Witness to Assignor #4	
5.		
	* Witness to Assignor #5	
6.		
	* Witness to Assignor #6	

SIGNATURE

Application for United States Letters Patent:

Serial No.: 10/789,507Filed: February 27, 2004Attorney Docket Number: MATI-227USTotal Number of Assignment Pages 2

\* Witness signature recommended, mandatory for some countries


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 1007 Orange Street, Suite 1100  
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 Wilmington, DE 19899  
 Phone: 302-778-2500  
 Fax: 302-778-2600  
[www.ratnerprestia.com](http://www.ratnerprestia.com)
☐  
 Suite 265  
 Commerce Corporate Center  
 5100 Tilghman Street  
 Allentown, PA 18104  
 Phone: 610-530-8100  
 Fax: 610-530-8200

**FAX FILING IN U.S. PATENT & TRADEMARK OFFICE**

 DATE: 6/29/04

 TIME: p.m.

TO:	Assignments	FAX NO.:	703 872 9306
FROM:	Kenneth N. Nigon	ADMIN. ASST.:	Bobbie Durham
APPLN. NO.:	10//789,507	ATTY. DOCKET NO.:	MATI-227US
TITLE OF APPLN.: METHOD AND APPARATUS FOR MODULATING A PULSE SIGNAL WITH A BIT STREAM			
FILING DATE:	Feb. 27, 2004	ART UNIT:	2817
FIRST INVENTOR:	Joao Miguel Romano	CONF. NO.:	9108
TITLE OF DOCUMENT (and List of Attachments): PTO Transmittal(1), Fee Transmittal(1 w/ duplicate)			
Form 1595(1) w/ executed Assignment (2)			

 Total Number of Pages: 3 (including this form)

## COMMENTS

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JUN 29 2004

6104070701

T-085 P.002/008 F-278

06-29-2004 04:21PM FROM-RatnerPrestia

PTO/SB/21 (02-04) (AW 02/2004)

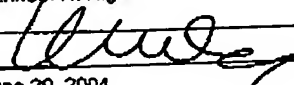
Approved for use through 7/31/2006. OMB 0851-0031

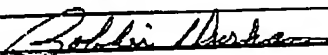
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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/789,507
	Filing Date	February 27, 2004
	First Named Inventor	Joao Miguel Romano (et al.)
	Art Unit	2817
	Examiner Name	
	Attorney Docket No.	MAT1-227US
Total Number of Pages in This Submission 7		

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/Dedication(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form 1595 w/ Assignment Return Receipt Postcard
Remarks:		

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT			
Firm or Individual Name	Kenneth N. Nigon	Registration No. (Attorney/Agent)	31,549
Signature			
Date	June 29, 2004		

CERTIFICATE OF TRANSMISSION / MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date:			
Typed or printed name	Bobbie Durham	Date	June 29, 2004
Signature			

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 40

## Complete if Known

Application Number	10/789,507
Filing Date	February 27, 2004
First Named Inventor	Joao Miguel Romano (et al.)
Examiner Name	
Art Unit	2817
Attorney Docket No.	MAT1-227US

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money ☐ Other ☐ None

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## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Fee Code	Fee (\$)	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
	1001	770		2001	385	Utility filing fee	
	1002	340		2002	170	Design filing fee	
	1003	530		2003	265	Plant filing fee	
	1004	770		2004	385	Reissue filing fee	
	1005	160		2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 0

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	20**	Extra Claims	0	Fee from below	0	Fee Paid	0
Independent Claims	3**		0		0		0
Multiple Dependent					0		0

Large Entity	Fee Code	Fee (\$)	Small Entity	Fee Code	Fee (\$)	Fee Description
	1202	18		2202	9	Claims in excess of 20
	1201	86		2201	43	Independent claims in excess of 3
	1203	290		2203	145	Multiple dependent claim, if not paid
	1204	86		2204	43	** Reissue independent claims over original patent
	1205	18		2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0

\*\*or number previously paid, if greater. For Reissues, see above

## FEE CALCULATION (continued)

Large Entity	Fee Code	Fee (\$)	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
	1051	130		2051	65	Surcharge - late filing fee or oath	
	1052	50		2052	25	Surcharge - late provisional filing fee or cover sheet	
	1053	130		2053	130	Non-English specification	
	1812	2,520		2812	2,520	For filing a request for ex parte reexamination	
	1804	920*		2804	920*	Requesting publication of SIR prior to Examiner action	
	1805	1,840*		2805	1,840*	Requesting publication of SIR after Examiner action	
	1251	110		2251	55	Extension for reply within first month	
	1252	420		2252	210	Extension for reply within second month	
	1253	950		2253	475	Extension for reply within third month	
	1254	1,480		2254	740	Extension for reply within fourth month	
	1255	2,010		2255	1,005	Extension for reply within fifth month	
	1401	330		2401	165	Notice of Appeal	
	1402	330		2402	165	Filing a brief in support of an appeal	
	1403	290		2403	145	Request for oral hearing	
	1451	1,510		2451	1,510	Petition to institute a public use proceeding	
	1452	110		2452	55	Petition to revive - unavoidable	
	1453	1,330		2453	665	Petition to revive - unintentional	
	1501	1,330		2501	665	Utility issue fee (or reissue)	
	1502	480		2502	240	Design issue fee	
	1503	640		2503	320	Plant issue fee	
	1460	130		2460	130	Petitions to the Commissioner	
	1807	50		2807	50	Processing fee under 37 CFR 1.17(e)	
	1806	180		2806	180	Submission of Information Disclosure Stmt	
	8021	40		28021	40	Recording each patent assignment per property (times number of properties)	40
	1809	770		2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
	1810	770		2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
	1801	770		2801	385	Request for Continued Examination (RCE)	
	1802	900		2802	900	Request for expedited examination of a design application	

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\*Reduced by Basic Filing Fee Paid

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## SUBMITTED BY

Name (Print/Type)	Kenneth N. Wilson	Registration No. Attorney/Agent	51,349	Telephone	610 407 0700
Signature				Date	June 29, 2004

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**FEE TRANSMITTAL  
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 40**Complete if Known**

Application Number	10/789,507
Filing Date	February 27, 2004
First Named Inventor	Joao Miguel Romano (et al.)
Examiner Name	
Art Unit	2817
Attorney Docket No.	MAT1-227US

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit Card ☐ Money ☐ Other ☐ None☒ Deposit Account (use as backup only):Deposit  
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Deposit  
Account  
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**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

**SUBTOTAL (1)**

(\$ 0)

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Extra Claims	Fee from below	Fee Paid
20**	0	0	0
3**	0	0	0
Multiple Dependent			0

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	280	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)**

(\$ 0)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	2053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	960	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,610	1451	1,510	Petition to Institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)**

(\$ 40)

**SUBMITTED BY**

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Signature

Date

June 29, 2004

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